

# Edward Huang

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## EDUCATION

### University of Waterloo

Expected Graduation: Jun 2029

### Bachelor's of Honors Computer Science and Finance

GPA: 3.9/4.0

**Relevant Coursework:** Algorithm Design and Data Abstraction, Data Structures and Algorithms, Obj-Oriented Soft Development, Logic & Computation, Interpreters and Compilers

## EXPERIENCE

### Tight Studio

Jul 2025 - Present

### Software Engineer Intern

San Francisco, CA

- Built and shipped a real-time video upload and sharing feature in **Node.js**, streaming screen recordings directly to **AWS S3** during capture to enable link access in under 1 second after recording ends
- Designed a resilient multipart video upload system with retry logic, S3 part tracking and error handling, achieving 99.9% success and zero data corruption across large video recordings
- Engineered a buffering and sync mechanism to coordinate chunked writes during capture, preventing race conditions and upload stalls in 500MB+ recordings and reducing capture-to-upload latency by 60%
- Developed in-app cropping and integrated **AI-powered captioning** (95% accuracy), reducing post-editing time by 40% and improving accessibility and engagement for screen-recorded content

### Daitaflow Software

Apr 2025 – Jul 2025

### Full-Stack Software Engineer Intern

Mississauga ON

- Built a **React.js/Django** dashboard to process and automate Excel spreadsheet cost-forecast and budget imports into Procore (cloud platform for construction project tracking) for **100+ clients**, eliminating 70% of manual data entry and accelerating forecast updates by 80%
- Designed robust **Django REST APIs** and PostgreSQL schemas to ingest Excel forecasts into Procore, support **300+ imports/hour**, snapshot and save historical data, and enable versioned cost forecasting
- Created interactive budget/spend visualizations, real-time variance alerts and notifications, and an editable forecast table with row grouping to reduce cost-overrun reporting time by 50%
- Built a full-stack user permission management system with filtering, bulk role updates, and automated termination for inactive users, enabling scaled onboarding and streamlined admin workflows

### Atria Community

May 2025 – Present

### Software Engineer

Vancouver, BC

- Built Townhall, a full stack **Django/Next.js** platform connecting volunteers to local initiatives, enabling 100+ users to post, chat, and coordinate events to support community engagement
- Developed 15+ RESTful APIs with Django REST Framework for core features like auth, uploads, comments, and implemented input validation and error handling to reduce request errors by 20%
- Implemented real-time chat with Django Channels/Redis and Pytest tests to ensure reliable delivery under concurrency, and developed React/Next.js components from Figma designs with supporting architecture docs

### University of Waterloo

Jun 2025 - Present

### Research Assistant

Waterloo ON

- Contributed to the open-source **Pyserini toolkit**, a Python interface for building and evaluating search engines on large-scale datasets, by fixing bugs, improving reproducibility, and supporting core development tasks

## PROJECTS

### Neural Network Sentiment Stock Predictor | *Python, PyTorch, Pandas*

Nov 2024 – Mar 2025

- Co-founded a sentiment-driven neural network trained on FDA articles that secured **\$250,000 USD** in funding and predicted biotech stock fluctuations with 94.6% accuracy
- Designed a Multi-Layer-Perceptron (MLP) neural network, enhancing predictive accuracy by 15% over the baseline model by using 8+ layers and ReLU activations

## TECHNICAL SKILLS

**Languages:** Python, C/C++, Java, Rust, JavaScript/TypeScript, Haskell, SQL, HTML/CSS

**Frameworks:** React.js, Node.js, Django, Express.js, MongoDB, PostgreSQL

**Technologies:** Git/Github, Pytorch, TensorFlow, Scikit-Learn, YFinance, Pandas, NumPy, Matplotlib/Seaborn